

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. : 7,026,484 B2  
APPLICATION NO. : 10/080926  
DATED : April 11, 2006  
INVENTOR(S) : Lin Zhi et al.

Page 1 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 82, Line 13 should read

- (±)-4c,5,6,7,7a(*cis*),8-Hexahydro-8-(2-methylpropyl)-4-trifluoromethylcyclopentano  
[g]-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-4c,5,6,7,7a(*cis*),8-Hexahydro-8-(2,2,2-chlorodifluoro-ethyl)-4-  
trifluoromethylcycloheptano[g]pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-4c,5,6,7,7a(*cis*),8-Hexahydro-8-cyclopropylmethyl-4-  
trifluoromethylcyclopentano[g]-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-4c,5,6,7,7a(*cis*),8-Hexahydro-8-(2,2-dimethoxyethyl)-4-trifluoromethylcyclo-  
pentano[g]pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-4c,5,6,7,8,8a(*cis*)-Hexahydro-9-(2,2,2-trifluoroethyl)-4-trifluoromethyl-9*H*-  
cyclohexano[g]pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-4c,5,6,7,8,9,9a(*cis*),10-Octahydro-10-(2,2,2-trifluoroethyl)-4-  
trifluoromethylcycloheptano[g]pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-6-ethyl-5-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7*H*-  
pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-5-butyl-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7*H*-  
pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-5-(4-nitrophenyl)-6-methyl-7-(2,2,2-trifluoroethyl)-4-  
trifluoromethyl-7*H*-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-5-(4-dimethylaminophenyl)-6-methyl-7-(2,2,2-trifluoroethyl)-4-  
trifluoromethyl-7*H*-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-5-(4-methoxyphenyl)-6-methyl-7-(2,2,2-trifluoroethyl)-4-  
trifluoromethyl-7*H*-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-5-(3-trifluoromethylphenyl)-6-methyl-7-(2,2,2-trifluoroethyl)-4-  
trifluoromethyl-7*H*-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-5-(4-fluorophenyl)-6-methyl-7-(2,2,2-trifluoroethyl)-4-  
trifluoromethyl-7*H*-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-Dihydro-5-phenyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7*H*-pyrrolo-3,2-*f*-  
quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-5-(4-methoxyphenyl)-6-methyl-4-trifluoromethyl-7*H*-pyrrolo  
[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-5-(4-methoxyphenyl)-6-methyl-7-(2,2-dimethoxyethyl)-4-  
trifluoromethyl-7*H*-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±)-5,6-*cis*-Dihydro-5-isopropyl-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-  
7*H*-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;

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REKEY

THE CORRECTION  
TO CLAIM 34

Equations/Formulas  
and

Text

[see new pages  
5,6,7]

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PATENT NO. : 7,026,484 B2  
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Page 2 of 0

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

(±)-5,6-Dihydro-5-ethyl-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo-[3,2-f]quinolin-2(1H)-one;  
(±)-5,6-Dihydro-5-ethyl-6-propyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo-[3,2-f]quinolin-2(1H)-one;  
(±)-5,6-Dihydro-5-(2-ethoxycarbonyl-ethyl)-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5,6-Dimethyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
6-Methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
6-Ethyl-5-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-Ethyl-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-Ethyl-6-propyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5,6,7,8-Tetrahydro-8-(2,2,2-trifluoroethyl)-4-trifluoromethylcyclopentano[g]-pyrrolo[3,2-f]quinolin-2(1H)-one;  
8-Trifluoroethyl-4-trifluoromethyl-6,8-dihydrocyclopentano[g]pyrrolo[3,2-f]quinolin-2(1H)-one;  
9-Trifluoroethyl-trifluoromethyl-9H-benzo[g]pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-(3-Trifluoromethylphenyl)-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-(4-Fluorophenyl)-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-(2-Ethoxycarbonyl-ethyl)-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-Hydroxymethyl-6-ethyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-Methyl-6-(1-hydroxyethyl)-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-Methyl-6-acetyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-Formyl-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-Acetyloxymethyl-6-ethyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
2-Acetyloxy-5-hydroxymethyl-6-ethyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo(3,2-f]quinoline;

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6-Ethyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-2(1H)-one;  
5-Ethoxymethyl-6-ethyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]-  
quinolin-2(1H)-one;  
(+)-6-(1-Methoxyethyl)-5-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo  
[3,2-f]quinolin-2(1H)-one;  
7-Allyl-6-methyl-4-trifluoromethyl-5H-pyrrolo[2,3-f]quinolin-2(1H)-one;  
6-Ethyl-7-methyl-4-trifluoromethyl-5H-pyrrolo[2,3-f]quinolin-2(1H)-one;  
7-(3-Trifluoromethylphenyl)-6-methyl-4-trifluoromethyl-5H-pyrrolo[2,3-f]quinolin-2  
(1H)-one;  
7-(2-Hydroxyethyl)-6-methyl-4-trifluoromethyl-5H-pyrrolo[2,3-f]quinolin-2(1H)-one;  
(+)-4c,5,6,7,7a(cis),8-Hexahydro-8-(2,2,2-trifluoroethyl)-4-trifluoromethyl-  
cyclopentano-[g]-pyrrolo[3,2-f]quinolin-2(1H)-one;  
(-)-4c,5,6,7,7a(cis),8-Hexahydro-8-(2,2,2-trifluoroethyl)-4-  
trifluoromethylcyclopentano-[g]-pyrrolo[3,2-f]quinolin-2(1H)-one;  
(±)-5,6-Dihydro-6-hydroxymethyl-4-trifluoromethylpyrrolo[3,2-f]quinolin-2(1H)-one;  
(±)-5,6-Dihydro-7-ethyl-6-hydroxymethyl-4-trifluoromethylpyrrolo[3,2-f]quinolin-2  
(1H)-one;  
5-Methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethylpyrrolo[3,2-f]quinolin-2(1H)-one;  
6-Formyl-5-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]  
quinolin-2(1H)-one; and  
5,6-Dimethyl-7-(2,2-difluorovinyl)-4-trifluoromethyl-7H-pyrrolo[3,2-f]quinolin-  
2(1H)-one.

Col. 84, line 1 should read .

33. A compound according to claim 1, wherein said compound is selected from the group consisting of:

(±)-4c,5,6,7,7a(cis),8-Hexahydro-8-(2,2,2-trifluoroethyl)-4-  
trifluoromethylcyclopentano-[g]-pyrrolo-[3,2-f]quinolin-2(1H)-one;  
(±)-4c,5,6,7,7a(cis),8-Hexahydro-8-ethyl-4-trifluoromethylcyclopentano-[g]pyrrolo  
[3,2-f]quinolin-2(1H)-one;  
(±)-5,6-Dihydro-5,6-cis-dimethyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo  
[3,2-f]quinolin-2(1H)-one;  
(±)-4c,5,6,7,7a(cis),8-Hexahydro-8-propyl-4-trifluoromethylcyclopentano-[g]pyrrolo-  
[3,2-f]quinolin-2(1H)-one;  
(±)-4c,5,6,7,7a(cis),8-Hexahydro-8-(2,2,2-chlorodifluoroethyl)-4-trifluoromethylcyclo-  
pentano-[g]-pyrrolo[3,2-f]quinolin-2(1H)-one;  
(±)-4c,5,6,7,7a(cis),8-Hexahydro-8 cyclopropylmethyl-4-trifluoromethylcyclopentano  
[g]pyrrolo[3,2-f]quinolin-2(1H)-one;

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Page 4 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- (±) 4c,5,6,7,8,8a(*cis*)-Hexahydro-9-(2,2,2-trifluoroethyl)-4-trifluoromethyl-9H-cyclohexano[g]pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±) 5,6-*cis* -Dihydro-6-ethyl-5-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±) 5,6-*cis*-Dihydro-5-butyl-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±) 5,6-Dihydro-5-ethyl-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±) 5,6-Dihydro-5-ethyl-6-propyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(±) 5,6-*cis*-Dihydro-5-methyl-6-ethyl-7-(2,2,2-trifluoroethyl)-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
5,6-Dimethyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
6-Methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
6-Ethyl-5-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
5-Ethyl-6-methyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
5,6,7,8-Tetrahydro-8-trifluoroethyl-4-trifluoromethylcyclopentano[g]pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
6-Ethyl-7-(2,2,2-trifluoroethyl)-4-trifluoromethyl-7H-pyrrolo[3,2-*f*]quinolin-2(1*H*)-one;  
(+) 4c,5,6,7,7a(*cis*)-8-Hexahydro-8-(2,2,2-trifluoroethyl)-4-trifluoromethylcyclopentano[g]pyrrolo[3,2-*f*]quinolin-2(1*H*)-one; and  
(-) 4c,5,6,7,7a(*cis*)-8-Hexahydro-8-(2,2,2-trifluoroethyl)-4-trifluoromethylcyclopentano[g]pyrrolo[3,2-*f*]quinolin-2(1*H*)-one



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PATENT NO. : 7,026,484 B2

Application No. 10/080,926

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DATED : APRIL 11, 2006

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It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

wherein:

$R^1$  is selected from among hydrogen, F, Cl, Br, I,  $\text{NO}_2$ ,  $\text{OR}^{12}$ ,  $\text{SR}^{12}$ ,  $\text{SOR}^{12}$ ,  $\text{SO}_2\text{R}^{12}$ ,  $\text{NR}^{12}\text{R}^{13}$ ,  $\text{C}_1\text{-C}_8$  alkyl,  $\text{C}_1\text{-C}_8$  haloalkyl and  $\text{C}_1\text{-C}_8$  heteroalkyl, wherein the alkyl, haloalkyl and heteroalkyl groups are optionally substituted;

$R^2$  is selected from among F, Cl, Br, I,  $\text{CF}_3$ ,  $\text{CHF}_2$ ,  $\text{CH}_2\text{F}$ ,  $\text{CF}_2\text{Cl}$ , CN,  $\text{CF}_2\text{OR}^{12}$ ,  $\text{CH}_2\text{OR}^{12}$ ,  $\text{OR}^{12}$ ,  $\text{SR}^{12}$ ,  $\text{SOR}^{12}$ ,  $\text{SO}_2\text{R}^{12}$ ,  $\text{NR}^{12}\text{R}^{13}$ , substituted  $\text{C}_1\text{-C}_8$  alkyl,  $\text{C}_1\text{-C}_8$  haloalkyl,  $\text{C}_1\text{-C}_8$  heteroalkyl,  $\text{C}_2\text{-C}_8$  alkenyl and  $\text{C}_2\text{-C}_8$  alkynyl, wherein the haloalkyl, heteroalkyl, alkenyl and alkynyl groups are optionally substituted;

$R^3$  is selected from among hydrogen,  $\text{C}_1\text{-C}_6$  alkyl,  $\text{C}_1\text{-C}_6$  haloalkyl and  $\text{C}_1\text{-C}_6$  heteroalkyl, wherein the alkyl, haloalkyl and heteroalkyl groups are optionally substituted;

$R^4$  is selected from among hydrogen, F, Cl, Br, I,  $\text{OR}^{12}$ ,  $\text{NR}^{12}\text{R}^{13}$ ,  $\text{SR}^{12}$ ,  $\text{SOR}^{12}$ ,  $\text{SO}_2\text{R}^{12}$ ,  $\text{C}_1\text{-C}_8$  alkyl,  $\text{C}_1\text{-C}_8$  haloalkyl,  $\text{C}_1\text{-C}_8$  heteroalkyl,  $\text{C}_2\text{-C}_8$  alkynyl,  $\text{C}_2\text{-C}_8$  alkenyl, aryl, heteroaryl and arylalkyl, wherein the alkyl, haloalkyl, heteroalkyl, alkynyl, alkenyl, aryl, heteroaryl and arylalkyl groups are optionally substituted;

$R^5$  is selected from among hydrogen,  $\text{C}_1\text{-C}_6$  alkyl,  $\text{C}_1\text{-C}_6$  haloalkyl and  $\text{C}_1\text{-C}_6$  heteroalkyl, wherein the alkyl, haloalkyl and heteroalkyl groups are optionally substituted;

$R^6$  is selected from among hydrogen, F, Cl, Br, I,  $\text{OR}^{12}$ ,  $\text{NR}^{12}\text{R}^{13}$ ,  $\text{SR}^{12}$ ,  $\text{SOR}^{12}$ ,  $\text{SO}_2\text{R}^{12}$ ,  $\text{C}_1\text{-C}_8$  alkyl,  $\text{C}_1\text{-C}_8$  haloalkyl,  $\text{C}_1\text{-C}_8$  heteroalkyl,  $\text{C}_2\text{-C}_8$  alkynyl,  $\text{C}_2\text{-C}_8$  alkenyl, aryl, heteroaryl and arylalkyl, wherein the alkyl, haloalkyl, heteroalkyl, alkynyl, alkenyl, aryl, heteroaryl and arylalkyl groups are optionally substituted;

$R^7$  is selected from among hydrogen,  $\text{C}_1\text{-C}_6$  alkyl,  $\text{C}_1\text{-C}_6$  haloalkyl and  $\text{C}_1\text{-C}_6$  heteroalkyl, wherein the alkyl, haloalkyl and heteroalkyl groups are optionally substituted;

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It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

$R^8$  is selected from among hydrogen, F, Cl, Br, I,  $OR^{12}$ ,  $NR^{12}R^{13}$ ,  $SR^{12}$ ,  $SOR^{12}$ ,  $SO_2R^{12}$ ,  $C_1-C_8$  alkyl,  $C_1-C_8$  haloalkyl,  $C_1-C_8$  heteroalkyl,  $C_2-C_8$  alkynyl,  $C_2-C_8$  alkenyl, aryl, heteroaryl and arylalkyl, wherein the alkyl, haloalkyl, heteroalkyl, alkynyl, alkenyl, aryl, heteroaryl and arylalkyl groups are optionally substituted; or

$R^3$  and  $R^5$  taken together form a bond; or

$R^5$  and  $R^7$  taken together form a bond; or

$R^4$  and  $R^6$  taken together form a three- to eight-membered saturated or unsaturated carbocyclic ring, wherein the carbocyclic ring is optionally substituted; or

$R^6$  and  $R^8$  taken together form a three- to eight-membered saturated or unsaturated carbocyclic ring, wherein the carbocyclic ring is optionally substituted;

[REDACTED]

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

$R^9$  and  $R^{10}$  each independently is selected from among hydrogen, F, Cl, Br, I, CN,  $OR^{12}$ ,  $NR^{12}R^{13}$ ,  $C_m(R^{12})_{2m}OR^{13}$ ,  $SR^{12}$ ,  $SOR^{12}$ ,  $SO_2R^{12}$ ,  $NR^{12}C(O)R^{13}$ ,  $C_1-C_8$  alkyl,  $C_1-C_8$  haloalkyl,  $C_1-C_8$  heteroalkyl and arylalkyl, wherein the alkyl, haloalkyl, heteroalkyl and arylalkyl groups are optionally substituted;

$R^{11}$  is selected from among F, Br, Cl, I, CN,  $OR^{14}$ ,  $NR^{14}R^{13}$  and  $SR^{14}$ ;

$R^{12}$  and  $R^{13}$  each independently is selected from among hydrogen,  $C_1-C_8$  alkyl,  $C_1-C_8$  haloalkyl,  $C_1-C_8$  heteroalkyl,  $C_2-C_8$  alkenyl,  $C_2-C_8$  alkynyl, heteroaryl and aryl, wherein the alkyl, haloalkyl, heteroalkyl, alkenyl, alkynyl, heteroaryl and aryl groups are optionally substituted;

$R^{14}$  is selected from among hydrogen,  $C_1-C_8$  alkyl,  $C_1-C_8$  haloalkyl,  $C_1-C_8$  heteroalkyl, aryl, heteroaryl,  $C(O)R^{15}$ ,  $CO_2R^{15}$  and  $C(O)NR^{15}R^{16}$ , wherein the alkyl, haloalkyl, heteroalkyl, aryl and heteroaryl groups are optionally substituted;

$R^{15}$  and  $R^{16}$  each independently is selected from among hydrogen,  $C_1-C_8$  alkyl,  $C_1-C_8$  haloalkyl and  $C_1-C_8$  heteroalkyl, wherein the alkyl, haloalkyl and heteroalkyl groups are optionally substituted;

W is O or S;

X is N  $\{R^{14}\}$ ;

Y is selected from among O, S, N  $\{R^{12}\}$  and NO  $\{R^{12}\}$ ;

Z is N  $\{R^{12}\}$ ;

n is 0; and

m is 0 or 1;

or a pharmaceutically acceptable salt thereof.

This certificate supersedes certificate of correction  
issued August 28, 2007.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]